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SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

(A) NAME: BANNAN, JASON D.  
(B) STREET: 2600 MILTON LANE  
(C) CITY: THOMPSON STATION  
(D) STATE OR PROVINCE: TENNESSEE  
(E) COUNTRY: UNITED STATES OF AMERICA  
(F) POSTAL CODE: 37179

(i) APPLICANT:

(A) NAME: ZABRISKIE, JOHN B.  
(B) STREET: 1385 YORK AVENUE  
(C) CITY: NEW YORK  
(D) STATE OR PROVINCE: NEW YORK  
(E) COUNTRY: UNITED STATES OF AMERICA  
(F) POSTAL CODE: 10021

(ii) TITLE OF INVENTION: PEPTIDES USEFUL FOR  
REDUCING SYMPTOMS OF TOXIC SHOCK SYNDROME

(iii) NUMBER OF SEQUENCES: 31

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: MORGAN & FINNEGAN  
(B) STREET: 345 PARK AVENUE  
(C) CITY: NEW YORK  
(D) STATE: NEW YORK  
(E) COUNTRY: USA  
(F) ZIP: 10154

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: FLOPPY DISK  
(B) COMPUTER: IBM PC COMPATIBLE  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: WORDPERFECT 5.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: TO BE ASSIGNED  
(B) FILING DATE: 07-APR-1997  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: MORRY, MARY J.  
(B) REGISTRATION NUMBER: 34,398

(C) REFERENCE/DOCKET NUMBER: 2016-4010

- (ix) TELECOMMUNICATION INFORMATION:  
(A) TELEPHONE: (212) 758-4800  
(B) TELEFAX: (212) 751-6849

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 10  
(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTIONS: SEQ ID NO: 1:

Tyr Gly Gly Xaa Thr Xaa Xaa Xaa Xaa Asn  
                            5                            10

(3) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 24  
(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTIONS: SEQ ID NO: 2:

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa  
                            5                            10

Xaa Arg Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Tyr  
            15                            20

(4) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 12  
(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTIONS: SEQ ID NO: 3:

Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn  
5 10

(5) INFORMATION FOR SEQ ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 24
  - (B) TYPE: AMINO ACID
  - (C) STRANDEDNESS: UNKNOWN
  - (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 4:

Lys Lys Asn Val Thr Val Gln Glu Leu Asp Tyr Lys  
5 10

Ile Arg Lys Tyr Leu Val Asp Asn Lys Lys Leu Tyr  
15 20

(6) INFORMATION FOR SEQ ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 14
  - (B) TYPE: AMINO ACID
  - (C) STRANDEDNESS: UNKNOWN
  - (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 5:

Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn  
5 10

Gly Cys

(7) INFORMATION FOR SEQ ID NO: 6:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28
  - (B) TYPE: AMINO ACID
  - (C) STRANDEDNESS: UNKNOWN
  - (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Cys Gly Lys Lys Asn Val Thr Val Gln Glu Leu Asp  
5 10

Tyr Lys Ile Arg Lys Tyr Leu Val Asp Asn Lys Lys  
15 20

Leu Tyr Gly Cys  
25

(8) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 36
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn  
5 10

Lys Lys Asn Val Thr Val Gln Glu Leu Asp Tyr Lys  
15 20

Ile Arg Lys Tyr Leu Val Asp Asn Lys Lys Leu Tyr  
25 30 35

(9) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 38
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Cys Met Tyr Gly Gly Val Thr Glu His Glu Gly Asn  
5 10

Lys Lys Asn Val Thr Val Gln Glu Leu Asp Tyr Lys  
15 20

Ile Arg Lys Tyr Leu Val Asp Asn Lys Lys Leu Tyr  
25 30 35  
Gly Cys



(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Cys Thr Tyr Gly Gly Val Thr Pro His Glu Gly Asn  
                  5                  10

(14) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 12  
(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Cys Met Tyr Gly Gly Val Thr Leu His Asp Asn Asn  
                  5                  10

(15) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 11  
(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Cys Leu Tyr Gly Gly Ile Thr Leu Asn Ser Glu  
                  5                  10

(16) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 12  
(B) TYPE: AMINO ACID  
(C) STRANDEDNESS: UNKNOWN  
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

Cys Ile Tyr Gly Gly Val Thr Asn His Glu Gly Asn  
                    5                                    10

(17) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

Tyr Ile Tyr Gly Gly Ile Thr Pro Ala Gln Asn Asn  
                    5                                    10

(18) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

Cys Met Tyr Gly Gly Val Thr Glu His His Arg Asn  
                    5                                    10

(19) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

Lys Lys Asn Val Thr Val Gln Glu Leu Asp Leu Gln  
5 10

Ala Arg Arg Tyr Leu Gln Glu Lys Tyr Asn Leu Tyr  
15 20

(20) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Lys Lys Lys Val Thr Ala Gln Glu Leu Asp Tyr Leu  
5 10

Thr Arg His Tyr Leu Val Lys Asn Lys Lys Leu Tyr  
15 20

(21) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

Lys Lys Ser Val Thr Ala Gln Glu Leu Asp Ile Lys  
5 10

Ala Arg Asn Phe Leu Ile Asn Lys Lys Asn Leu Tyr  
15 20

(22) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN



(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

Lys Lys Asn Val Thr Val Gln Glu Leu Asp Ala Gln  
5 10

Ala Arg Arg Tyr Leu Gln Lys Asp Leu Lys Leu Tyr  
15 20

(23) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

Lys Lys Glu Val Thr Val Gln Glu Leu Asp Leu Gln  
5 10

Ala Arg His Tyr Leu His Gly Lys Phe Gly Leu Tyr  
15 20

(24) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

Lys Lys Asn Val Thr Leu Gln Glu Leu Asp Ile Lys  
5 10

Ile Arg Lys Ile Leu Ser Asp Lys Tyr Lys Ile Tyr  
15 20

(25) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

Lys Lys Met Val Thr Ala Gln Glu Leu Asp Tyr Lys  
5 10

Val Arg Lys Tyr Leu Thr Asp Asn Lys Gln Leu Tyr  
15 20

(26) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

Lys Asp Ile Val Thr Phe Gln Glu Ile Asp Phe Lys  
5 10

Ile Arg Lys Leu Tyr Met Asp Asn Tyr Lys Ile Tyr  
15 20

(27) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

Lys Lys Gln Val Thr Val Gln Glu Leu Asp Cys Lys  
5 10

Thr Arg Lys Ile Leu Val Ser Arg Lys Asn Leu Tyr  
15 20

(28) INFORMATION FOR SEQ ID NO: 27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

Lys Lys Gln Leu Ala Ile Ser Thr Leu Asp Phe Glu  
5 10

Ile Arg His Gln Leu Thr Gln Ile His Gly Leu Tyr  
15 20

(29) INFORMATION FOR SEQ ID NO: 28:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

Xaa Xaa Tyr Gly Gly Xaa Thr Xaa Xaa Xaa Xaa Asn  
5 10

(30) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa  
5 10

Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr  
15 20

(31) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

Cys Met Tyr Gly Gly Xaa Thr Xaa His Xaa Gly Asn  
5 10

(32) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS: UNKNOWN
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: PEPTIDE

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

Lys Lys Xaa Val Thr Xaa Gln Glu Leu Asp Xaa Xaa  
5 10

Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Tyr  
15 20